Faculty Profile

Dr. V. Anandan, M.Sc, M.Phil, MBA., Ph.D
Professor – Mathematics
HoD – Science & Humanities

HIGHLIGHTS:

- Number of Journal Publications: 28
- H-Index: 10
- Patents Published: 1

PROFESSIONAL LINKS:

- Scopus ID: 56192130900
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=56192130900
- Google Scholar ID: https://scholar.google.com/citations?user=xExPSp0AAAAJ&hl=en
- Anna University Faculty ID: 2122079
- AICTE Faculty ID: 1-469182060
- Anna University Supervisor ID: 4070047
- LinkedIn: https://www.linkedin.com/in/dr-v-anandan-223bb743/?originalSubdomain=in
- Orcid ID: https://www.scopus.com/redirect.uri?url=https://orcid.org/0000-0003-1550-4896&authorId=56192130900&origin=AuthorProfile&orcId=0000-0003-1550-4896&category=orcidLink

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 15 Years 4 Months
- Industrial Experience: 3 Years 3 Months

AREA OF SPECIALIZATION:

- Multi Criteria Decision Making
- Optimization
- Fuzzy Set Theory
- Manufacturing

PATENTS PUBLISHED:

1) **Title of the Invention:** IOT Enhanced Fleet Management and Vehicle Telematics.
   Patent Application Number: 202341077064 A
   Patent Journal No. 51/2023
   Publication Date: 22.12.2023

ACHIEVEMENTS AND AWARDS:

- Received Best Teacher Award from Saveetha Engineering College for Research Publications with maximum SNIP factor 2022-23 and 2023-24

Publication Details (If any):

1) End milling of AISI 304 steel using minimum quantity lubrication, N Babu, **V Anandan**, N Muthukrishnan, M Santhanakumar, Measurement 138, 681-689, 2019
2) Evaluation of graphene based nano fluids with minimum quantity lubrication in turning of AISI D3 steel, M Naresh Babu, **V Anandan**, N Muthukrishnan, AA Arivalagar, SN Applied Sciences 1, 1-15, 2019
3) Influence of graphene nanofluid on various environmental factors during turning of M42 steel, **V Anandan**, MN Babu, MV Sezhian, CV Yildirim, MD Babu, Journal of Manufacturing Processes 68, 90-103, 2021
4) Analysis of EN24 steel in turning process with copper nanofluids under minimum quantity lubrication, M Naresh Babu, **V Anandan**, N Muthukrishnan, Journal of the Brazilian Society of Mechanical Sciences and Engineering 41, 2019
5) Investigation of the characteristic properties of graphene-based nanofluid and its effect on the turning performance of Hastelloy C276 alloy, MN Babu, **V Anandan**, ÇV Yıldırım, MD Babu, M Sarıkaya, Wear 510, 204495, 2022
6) Performance of ionic liquid as a lubricant in turning inconel 825 via minimum quantity lubrication method, MN Babu, **V Anandan**, MD Babu, Journal of Manufacturing Processes 64, 793-804, 2021
7) Performance analysis in turning of D3 tool steel using silver nanoplatelets as additives under MQL, MN Babu, **V Anandan**, NL Parthasarathi, CV Yildirim, MD Babu, SR Das, Journal of the Brazilian Society of Mechanical Sciences and Engineering 44, 2022
8) Performance of silver nanofluids with minimum quantity lubrication in turning on titanium: a phase to green manufacturing, **V Anandan**, M Naresh Babu, N Muthukrishnan, M Dinesh Babu, Journal of the Brazilian Society of Mechanical Sciences and Engineering 42, 1-15, 2020
9) Application of MOORA & COPRAS integrated with entropy method for multi-criteria decision making in dry turning process of Nimonic C263, M Krishna, SD Kumar, C Ezilarasan, PV Sudarsan, **V Anandan**, S Palani, Manufacturing Review 9, 20, 2022
10) Experimental process to evaluate the minimum quantity lubrication technique using copper nanofluids in turning process, MN Babu, **V Anandan**, N Muthukrishnan, M Gajendiran, International Journal of Machining and Machinability of Materials 20, 6, 2018
11) Extension of TOPSIS using L1 family of distance measures, **V Anandan**, G Uthra, Advances in Fuzzy Mathematics 12 (4), 897-908, 2017
12) Defuzzification by area of region and decision making using Hurwicz criteria for fuzzy numbers, **V Anandan**, G Uthra, Applied Mathematical Sciences 8 (63), 3145-3154, 2014
13) Effect of ionic liquid as lubricants in turning H 13 tool steel-an experimental study, aresh Babu, M Vetrivel Sezhian, **V Anandan**, M Dinesh Babu, Materials and Manufacturing Processes 37 (16), 1812-1822, 2022

14) An optimal evaluation in turning performance of Nimonic-80A under cryogenic conditions, MN Babu, **V Anandan**, MD Babu, NL Parthasarathi, B Gowthaman, Journal of Manufacturing Processes 114, 67-91, 2024
15) Ionic liquids assisted LQL for turning PH steels: smart methodology, K Ruth Isabels, M Naresh Babu, **V Anandan**, G Arul Freeda Vinodhini, Materials and Manufacturing Processes 39 (1), 81-89, 2024
16) Turning SKD 11 Steel Using Silver Nanofluids With Minimum Quantity Lubrication, MN Babu, **V Anandan**, MD Babu, N Muthukrishnan, International Journal of Manufacturing, Materials, and Mechanical, 2021
17) A Hybrid Approach integrating AHP and Extended TOPSIS by Tanimoto and Jaccard Distance Measures, **V Anandan**, G Uthra, International Journal of Pure and Applied Mathematics 117 (6), 145-153, 2017
18) Analysis of turning on A286 alloy with different environmental conditions, M Naresh Babu, **V Anandan**, M Dinesh Babu, Materials and Manufacturing Processes 39 (5), 647-662, 2024
19) A Modified Fuzzy TOPSIS Method using Cosine Similarities and Ochiai Coefficients, **V Anandan**, G Uthra, Advances in Fuzzy Sets and Systems 22 (3), 157-166, 2017
20) A Modification of Fuzzy TOPSIS based on Distance Measure, **V Anandan**, G Uthra, International Journal of Pure and Applied Mathematics 116 (23), 109-114, 2017
21) An evaluation of covariance and correlation analysis in entropy method, K Thirumalai, G Uthra, **V Anandan**, Indian Journal of Science and Technology 16 (34), 2746-2752, 2023
22) The Behaviour of carbon quantum dots and cryogenic cooling in turning of super duplex F 53 steel, MN Babu, **V Anandan**, R Thomas, MD Babu, SR Das, NL Parthasarathi, Wear 558, 205575, 2024
23) Sustainable machining with LN2 in turning of super duplex steel, M Naresh Babu, **V Anandan,** M Dinesh Babu, S Seetharaman, Materials and Manufacturing Processes 39 (14), 1955-1965, 2024
24) A Gower TOPSIS Method for Optimization of Machining Parameters of Nimonic 80A under Cryogenic Cooling and Minimum Quantity Lubrication, **V Anandan**, G Manimaran, G Uthra, Advanced Materials Proceedings 5 (1), 14-16, 2020
25) Response Optimization of Machining Parameters using VIKOR Method under Fuzzy Environment, **V Anandan**, G Manimaran, G Uthra, Global Journal of Pure and Applied Mathematics 12 (1), 78-81, 2016
26) Multi Response Optimization of Grinding Stainless Steel using Fuzzy ELECTRE Method, **V Anandan**, G Manimaran, G Uthra, International Journal of Applied Engineering Research 10 (80), 238-241, 2015
27) Comparative analysis of technology-enhanced teaching methods in engineering mathematics using TOPSIS method, N Kavitha, G Uthra, **V Anandan**, Pedagogical Revelations and Emerging Trends, 100-104
28) Optimizing machining of 17-4 PH steel with ionic coolant: A comprehensive evaluation using hybrid CRITIC IF R-VIKOR MCDM approach, K Ruth Isabels, G Arul Freeda Vinodhini, **V Anandan**, Journal of Intelligent & Fuzzy Systems, 1-16
29) Modelling and Optimization of Complex Interactions in Multivariate Systems using Design Expert, K Thirumalai, G Uthra, **V Anandan**